



May 2007

TO: WATER CUSTOMERS

FROM: CITY OF IMPERIAL

SUBJECT: ANNUAL WATER QUALITY REPORT

CITY OF IMPERIAL WATER CUSTOMERS:

The California Domestic Water Quality and Monitoring Regulations (Title 22, California Code of Regulations) adopted January 1, 1989; require that each community water system distribute an annual report of the quality of water served to its customers. Though this is a mandated requirement, the City of Imperial welcomes the opportunity to inform its citizens of the methods of treatment and the quality of water delivered.

The City receives its water supply from the Colorado River via the All American Canal and the facilities of the Imperial Irrigation District. Our treatment process for the surface water consists of "complete" treatment including sedimentation, coagulation, flocculation, filtration and disinfection. The City currently provides nearly 4 million gallons per day at peak flows and over 952 million gallons of water annually to its citizens.

At the present time the City meets all applicable California Department of Health Services and United States Environmental Protection Agency domestic water quality standards. Water quality data for the reporting period ending December 31, 2006 is attached. Recent 2007 water quality information is available for review upon request.

If you desire further information or have any questions, please contact the Water Department at (760) 355-2155.

Imperial - Source Water Quality									
Constituent (units)	PRIMARY	MCL	PHG (MCLG)	Range of Detection	Average	Level	MCL Violation?	Most Recent Sampling date	Typical Source of Constituent
Turbidity									
Highest single measurement of the Treated Surface Water (NTU)	TT = 5.0		n/a	0.02-0.16	0.09		No	2006	Soil runoff
Lowest Percent of all Monthly Readings less than 0.5 NTU (%)	TT = 95		n/a	100	100		No	2006	Soil runoff
Inorganic Constituents								2006	
Aluminum (ug/l)	1,000		n/a	270	270		No	2006	Erosion of natural deposits; residue from some surface water treatment processes
Fluoride (ppm)	2		1	0.36	0.36		No	2006	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Radioactive Constituents									
Gross Alpha particle activity (pCi/l)	15		N/D	N/D-4.9	2.6		No	2006	Erosion of natural deposits
Uranium (pCi/l)	20		n/a	N/D-5.2	4.4		No	2006	Erosion of natural deposits
Constituent (units)	SECONDARY MCL		PHG (MCLG)	Range of Detection	Average	Level	MCL Violation?	Most Recent Sampling date	Typical Source of Constituent
Aluminum (ug/l)	1000		n/a	270	270		No	2006	Erosion of natural deposits; residual from some surface water treatment processes
Arsenic (ppm)	50		n/a	2.4	2.4		No	2006	Naturally-occurring organic materials
Barium (ppm)	1000		2	130	130		No	2006	Discharge of old drilling waste from metal refineries erosion of natural deposits
Iron (ug/l)	300		n/a	220	220		No	2006	Leaching from natural deposits; industrial wastes
Manganese (ug/l)	50		n/a	N/D	N/D		No	2006	Leaching from natural deposits
Color (units)	15		n/a	20	20		No	2006	Naturally-occurring organic materials
Odor Threshold (Units)	3		n/a	2	2		No	2006	Naturally-occurring organic materials
Total Dissolved Solids (ppm)	1,000		n/a	780	780		No	2006	Runoff/leaching from natural deposits
Specific Conductance (micromhos)	1,600		n/a	1200	1200		No	2006	Substances that form ions when in water; seawater influence
Chloride (ppm)	500		n/a	120	120		No	2006	Runoff/leaching from natural deposits; seawater influence
Silver	2		n/a	N/D	N/D		No	2006	Runoff/leaching from natural deposits; seawater influence
Sulfate (ppm)	500		n/a	310	310		No	2006	Runoff/leaching from natural deposits; industrial wastes
pH (pH units)	Not Regulated		n/a	8.1	8.1		n/a	2006	Leaching from natural deposits
Unregulated Constituent Requiring monitoring (units)	MCL		PHG (MCLG)	Range of Detection	Average	Level	MCL Violation?	Most Recent Sampling date	Typical Source of Constituent
Hardness as CaCO3 (ppm)	Not Regulated		n/a	350	350		n/a	2006	Leaching from natural deposits
Vanadium	Not Regulated		n/a	N/D	N/D		n/a	2006	Leaching from natural deposits
Sodium (ppm)	Not Regulated		n/a	120	120		n/a	2006	Leaching from natural deposits
Potassium (ppm)	Not Regulated		n/a	5.5	5.5		n/a	2006	Leaching from natural deposits
Calcium (ppm)	Not Regulated		n/a	92	92		n/a	2006	Leaching from natural deposits
Boron	Not Regulated		n/a	150	150		n/a	2006	Leaching from natural deposits
Magnesium (ppm)	Not Regulated		n/a	31	31		n/a	2006	Leaching from natural deposits
Perchlorate (ppb)	Not Regulated		4	N/D	N/D		n/a	2006	Perchlorate is a chemical used by industries in the manufacturing of rocket fuels, pyrotechnics (fireworks), matches, pharmaceuticals, and as a lab-grade chemical.
Distribution System Water Quality									
Microbiological Contaminants (units)	PRIMARY	MCL	PHG (MCLG)		Value		MCL Violation?	Most Recent Sampling date	Typical Source of Constituent
Total Coliform Bacteria (% of monthly positive samples)	More than 5% of monthly samples are positive		(0)		0		No	2006	Naturally present in the environment
Fecal coliform and E. coli Bacteria (number of monthly positive samples)	A routine sample and a repeat sample are total coliform positive, and one is also fecal coliform or E. coli positive		(0)		0		No	2006	Human and animal fecal waste

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UG/L= MICROGRAMS PER LITER

(PARTS PER BILLION)

MG/L=MILLIGRAMS PER LITER

(PARTS PER MILLION)

N/A=NONE AVAILABLE

MAXIMUM CONTAMINANT LEVEL(MCL): The highest level of contaminant that is allowed in drinking water. Primary MCL's are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

MAXIMUM CONTAMINANT LEVEL GOAL(MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

PRIMARY DRINKING WATER STANDARD or PDWS: MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

TREATMENT TECHNIQUE: a required process intended to reduce the level of a contaminant in drinking water.

REGULATORY ACTION LEVEL: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

VARIANCES AND EXEMPTIONS: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

MICROBIAL CONTAMINANTS: such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

INORGANIC CONTAMINANTS: such as salts and metals, that can be naturally-occurring or be the result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

PESTICIDES AND HERBICIDES: that may come from a variety of sources such as agriculture, urban storm water runoff, agricultural application and septic systems.

RADIOACTIVE CONTAMINANTS: that can be naturally-occurring or be the result of oil and gas production and mining activities.

SECONDARY DRINKING WATER STANDARDS (SDWS) MCLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Department of Health Services (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that provide the same protection of public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not, necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).